

What is claimed is:

1. A surface light source unit comprising:

a plurality of light sources for emitting light beams; and

a light guide plate for transmitting the light beams, comprising:

a light incidence surface for receiving the light beams;

an emission surface adjacent to the light incidence surface for emitting the light beams;

a bottom surface opposite to the emission surface; and

a plurality of diffusion dots formed on the bottom surface for scattering the light beams;

wherein a plurality of substantially triangular scatter enhancing regions is defined on the bottom surface adjacent to the light sources, and the diffusion dots in the scatter enhancing regions are larger than the diffusion dots in a remaining region of the bottom surface adjacent to the scatter enhancing regions.

2. The surface light source unit as claimed in claim 1, wherein the diffusion dots are arranged generally uniformly on the bottom surface.

3. The surface light source unit as claimed in claim 1, wherein one side of each of the scatter enhancing regions is adjacent to the light incidence surface.

4. The surface light source unit as claimed in claim 1, wherein the sizes of the diffusion dots in the remaining region of the bottom surface increase with increasing distance away from the light incident surface.

5. The surface light source unit as claimed in claim 1, wherein a distribution density of the diffusion dots in the scatter enhancing regions is in the range from 50% to 90%.

6. The surface light source unit as claimed in claim 1, wherein a distribution density of the diffusion dots in the remaining region of the bottom surface is in the range from 3% to 85%.
7. The surface light source unit as claimed in claim 1, wherein the light guide plate is rectangular.
8. The surface light source unit as claimed in claim 1, wherein the light guide plate is wedge-shaped.
9. The surface light source unit as claimed in claim 1, wherein the light guide plate is made of polymethyl methacrylate (PMMA).
10. The surface light source unit as claimed in claim 1, wherein the light source is a point light source.
11. The surface light source unit as claimed in claim 1, wherein each of the light sources is a light emitting diode (LED).
12. The surface light source unit as claimed in claim 1, further comprising a reflective plate disposed on the bottom surface of the light guide plate.
13. The surface light source unit as claimed in claim 1, further comprising a diffusing plate disposed on the emission surface of the light guide plate.
14. The surface light source unit as claimed in claim 1, further comprises a prism plate disposed on the emission surface of the light guide plate.
15. A surface light source unit comprising:
  - a plurality of light sources for emitting light beams; and
  - a light guide plate for transmitting the light beams, comprising:
    - a light incidence surface for receiving the light beams;
    - an emission surface adjacent to the light incidence surface for emitting the

light beams;

a bottom surface opposite to the emission surface; and

a plurality of diffusion dots formed on the bottom surface for scattering the light beams;

wherein a plurality of substantially triangular scatter enhancing regions is provided on the bottom surface close to the light sources, and a distribution density of the diffusion dots in the scatter enhancing regions is greater than a distribution density of the diffusion dots in a remaining region on the bottom surface adjacent to the scattering enhancing regions.

16. The surface light source unit as claimed in claim 15, wherein one side of each of the scatter enhancing regions is adjacent to the light incidence surface.

17. The surface light source unit as claimed in claim 15, wherein the distribution density of the diffusion dots in the scatter enhancing regions is in the range from 50% to 90%.

18. The surface light source unit as claimed in claim 15, wherein the distribution density of the diffusion dots in the remaining region of the bottom surface is in the range from 3% to 85%.

19. A surface light source unit comprising:

a light guide plate;

a plurality of spot light sources located along one side of said light guide plate, and commonly defining a plurality of brighter areas and a plurality of darker areas in the light guide plate alternatively arranged with each other, the darker areas being essentially arranged adjacent to said light sources along said side and being of a diverging configuration away from said side;

a plurality of diffusion dots formed on a bottom face of the light guide plate under a condition that the dot located in the brighter area and closer to the corresponding light source is smaller than dot which is in the same area while far away from the same corresponding light source, and the dot located in the darker area is larger than the dot which is located in the brighter and closer to the corresponding light source.